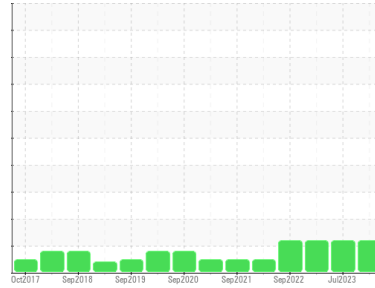


Area  
**PLANT 1 [907308376]**  
 Machine Id  
**RC-7 PLANT 1 (S/N 1877358D)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**IRVING STAR C 4G ISO 68 (125 GAL)**



## DIAGNOSIS

**Recommendation**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 There is a high amount of silt (particulates < 14 microns in size) present in the oil.

**Fluid Condition**  
 The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

| method        | limit/base  | current            | history1      | history2    |        |
|---------------|-------------|--------------------|---------------|-------------|--------|
| Sample Number | Client Info | <b>PCA0116835</b>  | PCA0068402    | PCA0046393  |        |
| Sample Date   | Client Info | <b>21 Feb 2024</b> | 25 Jul 2023   | 13 Feb 2023 |        |
| Machine Age   | hrs         | Client Info        | <b>134060</b> | 133184      | 132607 |
| Oil Age       | hrs         | Client Info        | <b>0</b>      | 0           | 0      |
| Oil Changed   | Client Info | <b>Not Chngd</b>   | N/A           | Not Chngd   |        |
| Sample Status |             | <b>ABNORMAL</b>    | ABNORMAL      | ABNORMAL    |        |

## WEAR METALS

| method   | limit/base | current        | history1     | history2 |    |
|----------|------------|----------------|--------------|----------|----|
| Iron     | ppm        | ASTM D5185m >8 | <b>2</b>     | 9        | 12 |
| Chromium | ppm        | ASTM D5185m >2 | <b>0</b>     | 0        | 0  |
| Nickel   | ppm        | ASTM D5185m    | <b>0</b>     | 0        | 0  |
| Titanium | ppm        | ASTM D5185m    | <b>0</b>     | 0        | 0  |
| Silver   | ppm        | ASTM D5185m >2 | <b>0</b>     | <1       | 0  |
| Aluminum | ppm        | ASTM D5185m >3 | <b>0</b>     | 0        | <1 |
| Lead     | ppm        | ASTM D5185m >2 | <b>&lt;1</b> | 0        | <1 |
| Copper   | ppm        | ASTM D5185m >8 | <b>0</b>     | <1       | <1 |
| Tin      | ppm        | ASTM D5185m >4 | <b>0</b>     | 0        | 0  |
| Vanadium | ppm        | ASTM D5185m    | <b>&lt;1</b> | 0        | 0  |
| Cadmium  | ppm        | ASTM D5185m    | <b>&lt;1</b> | <1       | 0  |

## ADDITIVES

| method     | limit/base | current     | history1   | history2 |     |
|------------|------------|-------------|------------|----------|-----|
| Boron      | ppm        | ASTM D5185m | <b>0</b>   | 0        | 0   |
| Barium     | ppm        | ASTM D5185m | <b>0</b>   | 0        | 0   |
| Molybdenum | ppm        | ASTM D5185m | <b>0</b>   | 0        | 0   |
| Manganese  | ppm        | ASTM D5185m | <b>0</b>   | 0        | 0   |
| Magnesium  | ppm        | ASTM D5185m | <b>0</b>   | 0        | 0   |
| Calcium    | ppm        | ASTM D5185m | <b>0</b>   | 0        | 0   |
| Phosphorus | ppm        | ASTM D5185m | <b>0</b>   | 0        | 3   |
| Zinc       | ppm        | ASTM D5185m | <b>0</b>   | 0        | 0   |
| Sulfur     | ppm        | ASTM D5185m | <b>259</b> | 321      | 303 |

## CONTAMINANTS

| method    | limit/base | current          | history1     | history2 |       |
|-----------|------------|------------------|--------------|----------|-------|
| Silicon   | ppm        | ASTM D5185m >15  | <b>1</b>     | 1        | 2     |
| Sodium    | ppm        | ASTM D5185m      | <b>&lt;1</b> | 0        | 0     |
| Potassium | ppm        | ASTM D5185m >20  | <b>&lt;1</b> | <1       | 0     |
| Water     | %          | ASTM D6304 >0.01 | <b>0.00</b>  | 0.003    | 0.005 |
| ppm Water | ppm        | ASTM D6304 >100  | <b>0</b>     | 33.0     | 51.7  |

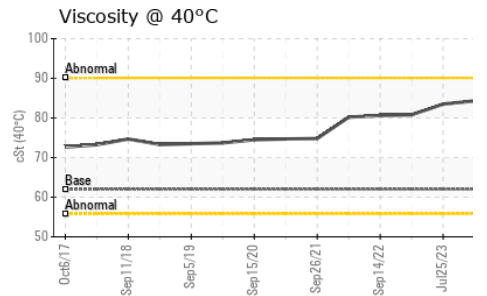
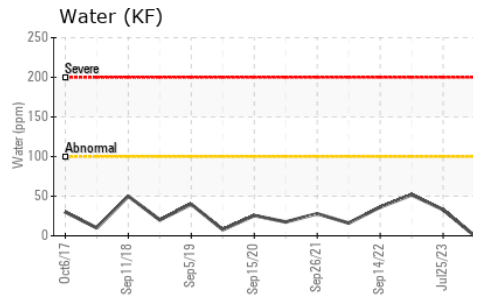
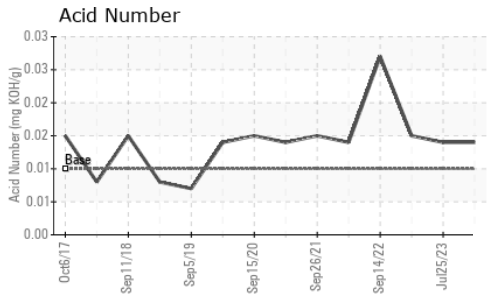
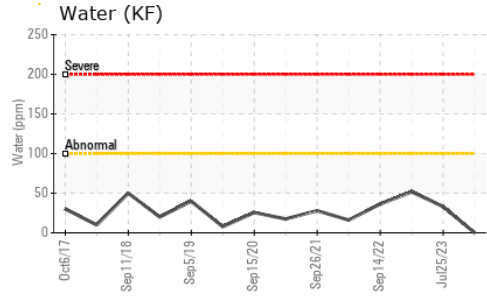
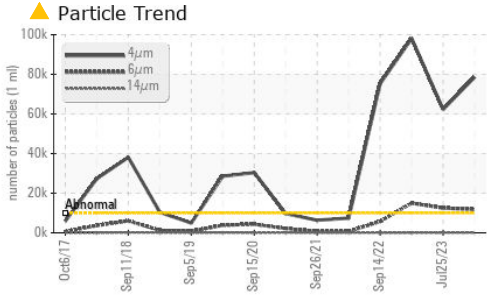
## FLUID CLEANLINESS

| method          | limit/base             | current           | history1   | history2   |
|-----------------|------------------------|-------------------|------------|------------|
| Particles >4µm  | ASTM D7647 >10000      | <b>▲ 78627</b>    | ▲ 62249    | ▲ 98109    |
| Particles >6µm  | ASTM D7647 >2500       | <b>▲ 11802</b>    | ▲ 12518    | ▲ 15022    |
| Particles >14µm | ASTM D7647 >320        | <b>102</b>        | 41         | 45         |
| Particles >21µm | ASTM D7647 >80         | <b>9</b>          | 2          | 3          |
| Particles >38µm | ASTM D7647 >20         | <b>0</b>          | 1          | 0          |
| Particles >71µm | ASTM D7647 >4          | <b>0</b>          | 0          | 0          |
| Oil Cleanliness | ISO 4406 (c) >20/18/15 | <b>▲ 23/21/14</b> | ▲ 23/21/13 | ▲ 24/21/13 |

## FLUID DEGRADATION

| method           | limit/base | current        | history1     | history2 |       |
|------------------|------------|----------------|--------------|----------|-------|
| Acid Number (AN) | mg KOH/g   | ASTM D974 0.01 | <b>0.014</b> | 0.014    | 0.015 |

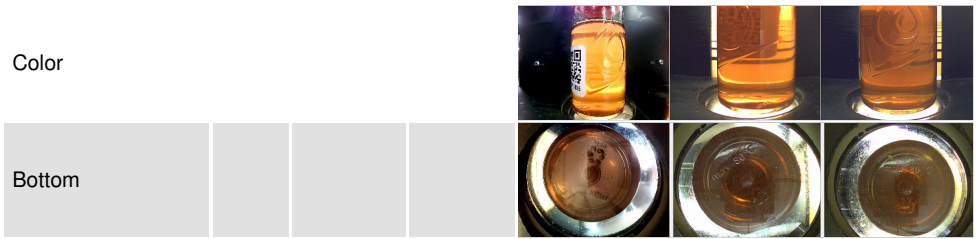
# OIL ANALYSIS REPORT



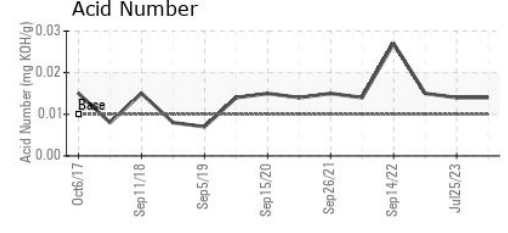
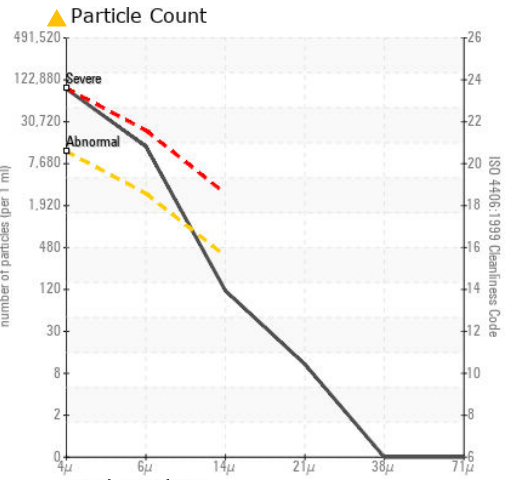
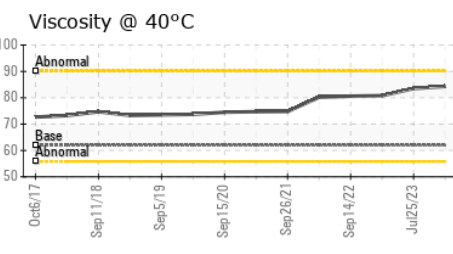
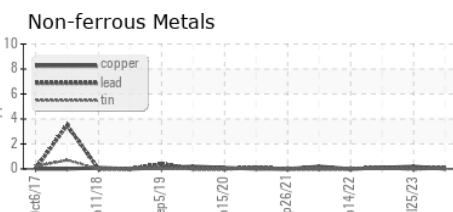
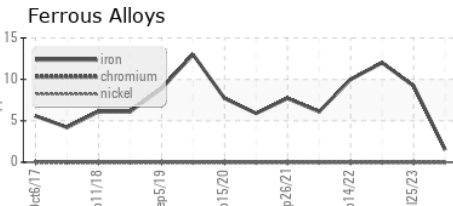
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual    | NONE    | NONE     | NONE     |
| Appearance       | scalar | *Visual    | NORML   | NORML    | NORML    |
| Odor             | scalar | *Visual    | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | *Visual    | >0.01   | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 62.0    | 84.3     | 83.5     |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116835 **Received** : 08 Mar 2024  
**Lab Number** : 06112946 **Tested** : 11 Mar 2024  
**Unique Number** : 10916443 **Diagnosed** : 11 Mar 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**MCCAIN FOODS**  
 319 RICHARDSON RD  
 EASTON, ME  
 US 04740  
 Contact: ROCKY DEWITT  
 rocky.dewitt@mccain.com  
 T: (207)488-1251  
 F: (207)488-1249

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)